SPIRIT MEDICAL SYSTEMS GROUP

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MA900 RAC Adaptive Kit
OWNER'S MANUAL

RAC Adaptive Kit Assembly Instructions

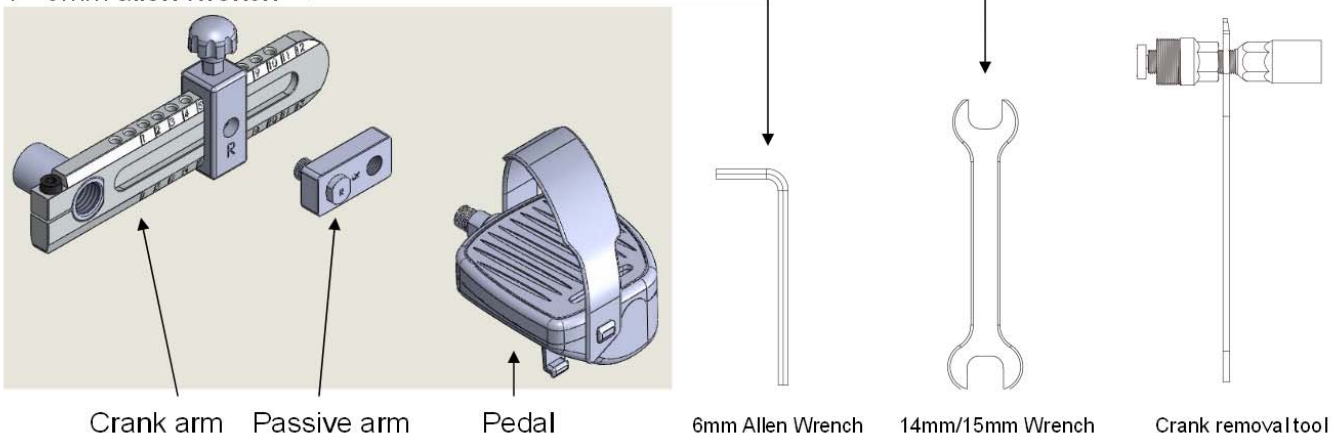
Thank you for purchasing the Rehabilitation Adjustable Crank (RAC) from Spirit Medical Systems Group. Once installed on a Spirit Medical rehabilitation bike or most other standard stationary bikes with a three piece crank, the RAC Set enables a clinician to adjust the bikes to accommodate a patient's performance capabilities. This includes independently, single side or bi-lateral adjustments from a limited range-of-motion as small as 15 degrees through full range-of-motion performance.

The following set of instructions should give you all the information you need to properly install the RAC on your stationary bike. If you find you are missing parts or have questions regarding assembly please contact Spirit service for assistance.
Spirit Service: Phone: 870-336-2039 Fax: 870-935-7611

Package checklist

Before starting please check to make sure that all the parts and tools are in the box. The box should contain:

1 - set (left and right) of crank arms with adjustment slide.
1 - set of pedals (left and right)
1 - set of passive arm pedal cranks (left and right)
1 - crank removal tool
1 - open-end wrench, 14mm & 15mm
1 - 6mm allen wrench



RAC Adaptive Kit Assembly Instructions

IMPORTANT INFORMATION: *The RAC cranks, passive arms and pedals have left and right threads. These items all have an L or R clearly marked on them for easy identification. The threads for the Right side of the bike will turn CLOCKWISE to tighten. Threads on the Left side of the bike will turn COUNTER-CLOCKWISE to tighten.*

NOTE: The first three steps show how to remove the stock crank arm from your bike. Some bikes may vary from these instructions.

1. Remove dust cap. Remove the nut that holds the crank arm in place using the socket end of the crank removal tool.

2. Remove the silver colored cap from the tool as shown in the picture. You will not need this cap for crank removal, but do not lose it because it will be needed if you are required to remove the RAC crank arm in the future. Thread the black barrel end of the tool into the crank arm until it stops, at least 4~5 full turns.

3. Thread the silver bolt all the way into the black barrel until it stops. Place the red handled wrench onto the hex part of the silver barrel and turn clockwise until the crank arm becomes loose. Remove crank arm.

4. Install the RAC crank arm onto the axle. Locate the nut that was removed in step 2 and thread it onto the axle using the socket end of the removal tool. Tighten the nut as tight as you can to prevent it from becoming loose. Install the dust cap when finished.

5. Install and tighten the pedals. When tightening the pedal it is much easier if the opposite end of the wrench is oriented so it points toward the crank axle as shown below. If the wrench faces the opposite direction it is very difficult to tighten the pedal properly. The same is true for tightening the axle nut in step 4 above.

When the assembly is completed pedal the bike to test the new cranks. If you feel slight hesitation at points in the rotation or a clicking noise check that the crank nut and pedals are very tight. Also make sure the adjustment knob on the adjustable slide is tight.

IMPORTANT NOTICE:

CHECK BEFORE EACH USE TO SEE THAT THE CRANKS AND PEDALS ARE SECURELY FASTENED – IF NOT RE-TIGHTEN THE BOLTS.

Passive Arm

With the addition of the passive arm, a patient with insufficient strength may actually utilize the involved limb in pedaling as it is passively ranged by the uninvolved limb within his/her prescribed range-of-motion. The passive arm swings loose so no force can be applied by the patient.

NOTE: The passive arm can also be installed on a standard crank arm.

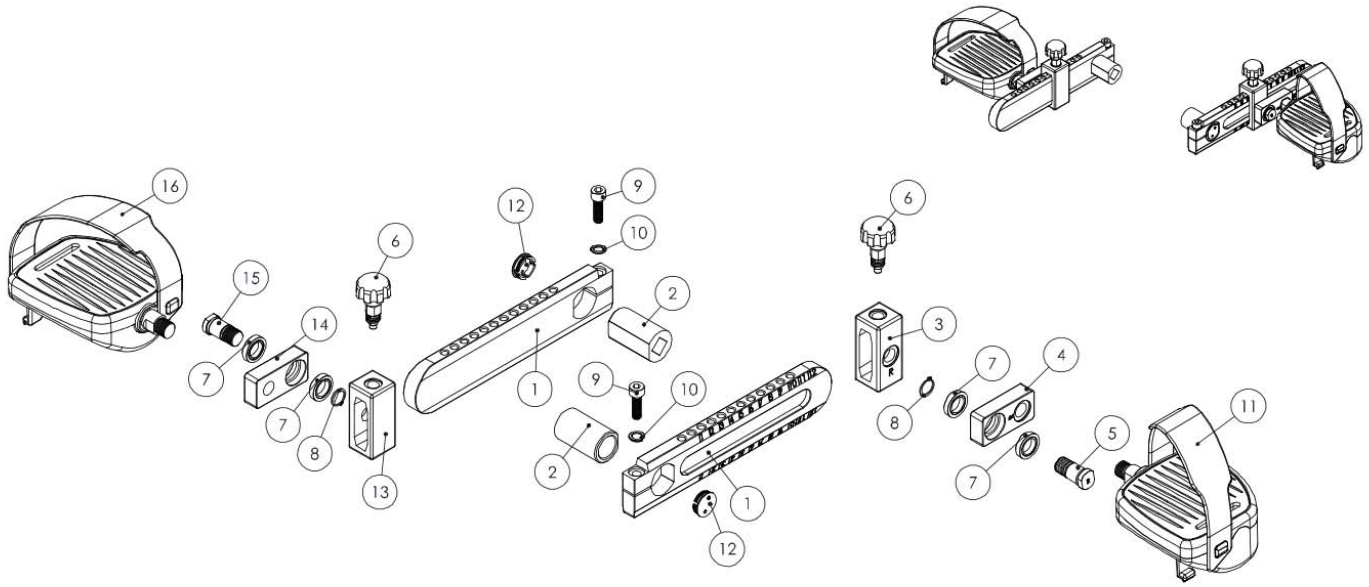
Installation:

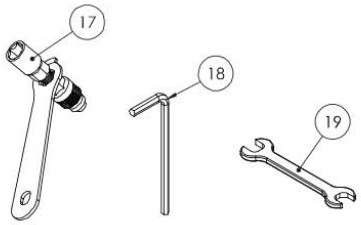
Step 1: Remove Pedal

Step 2: Install Passive Arm

Step 3: Install Pedal on Passive Arm

RAC Adaptive Kit Exploded View Drawing





ITEM	DESCRIPTION	PART#	Q'TY
1	CRANK ARM	C120036	2
2	ADAPTER,CRANK/AXLE	C100034	2
3	ADJUSTABLE SLIDE,RIGHT	C120040	1
4	PASSIVE ARM,RIGHT	C120038	1
5	AXLE,PASSIVE ARM,RIGHT	C120042	1
6	ADJUSTMENT KNOB	K150002	2
7	BEARING,6802	K056802	4
8	C-CLIP	J310010	2
9	BOLT,CRANK ARM	J033007	2
10	SPLIT WASHER	J260011	2
11	PEDAL, RIGHT	N150017	1
12	DUST CAP	P280009	2
13	ADJUSTABLE SLIDE,LEFT	C120039	1
14	PASSIVE ARM,LEFT	C120037	1
15	AXLE,PASSIVE ARM, LEFT	C120041	1
16	PEDAL,LEFT	N150016	1
17	CRANK REMOVAL TOOL	C141014	1
18	ALLEN WRENCH 6mm	J330024	1
19	WRENCH,14-15mm	J330041	1

2012/05/8

Manufacturer's Limited Warranty

Effective August 1, 2013 – RAC limited warranty

Spirit Medical Systems Group warrants this product for a period of one (1) year from the date of sale, as determined by the sales receipt. Spirit's responsibilities include providing new or remanufactured parts, at Spirit's option, and technical support to our dealers and service organizations. In the absence of a dealer or service organization, these warranties will be administered by Spirit directly to a consumer.

Exclusions

This warranty does not cover the following:

1. Consequential, collateral, or incidental damages such as property damage and incidental expenses resulting from any breach of this written or implied warranty. Note: some states do not allow the exclusion or limitation of incidental or consequential damages, so this limitation or exclusion may not apply to you.
2. Damages caused by services performed by persons other than authorized Spirit service companies, use of parts other than original Spirit parts, or external causes such as alterations, modifications, abuse, misuse, accident, improper maintenance or acts of God.
3. Products that have been sold, bartered or given to a third party.
4. Products that are used as store displays.
5. This warranty is expressly in lieu of all other warranties expressed or implied, including the warranties of merchantability and/or fitness for a particular purpose.

Service

Keep your bill of sale. Twelve months from the date on the bill of sale establishes the warranty period should service be required. If service is performed it is in your best interest to obtain and keep all receipts. This warranty gives you specific legal rights. You also may have other rights that vary from state to state. Service under this warranty must be obtained by following these steps, in order:

1. Contact your selling authorized Spirit dealer. OR
2. Contact your local authorized spirit service organization. If there is a questions as to where to obtain service, contact our service department at (870) 336-2039
3. Spirit's obligation under this warranty is limited to repairing or replacing, at Spirit's option, the product through one of our authorized service centers. All repairs must be preauthorized by Spirit. For replacement parts shipped while the product is under warranty, the customer will be responsible for shipping and handling charges.
4. For any further information, or to contact our service department by mail, send your correspondence to:

   Spirit Medical Systems Group
   P.O. Box 2037
   Jonesboro, AR 72402-2037

Product features or specifications as described or illustrated are subject to change without notice. All warranties are made by Spirit Medical Systems Group. This warranty applies only in the 48 contiguous United States. NOTE: This does not apply to Alaska or Hawaii.

www.spiritmedicalsystems.com/

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